

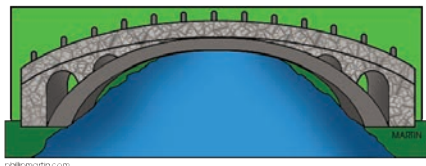
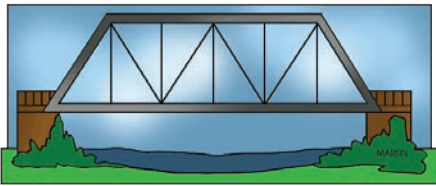
Bridge Activity - Lesson 4

The Bridge : *Making the Connection*

Theme

Build a Bridge of your own Design

Remember.... Every bridge needs to support its own weight and the weight of everything that travels along it



Objective

To construct a 3 dimensional bridge out of the given materials that holds the most weight....

Building Materials

- Construction Paper
- Foam core - Use is required
- Paper cups - Use is required
- Corks
- Popsicle Sticks
- Rubber bands
- Pipe Cleaners
- Push Pins

Activity

Build a Bridge

Think about your material's strength and weakness

Where is the weak point?

Where is it strong?

Student Name



Hell Gate Bridge - Bronx, New York

Vocabulary

engineer the professional responsible for design and construction of structures, systems and equipment

scale the size and proportion of one object compared to another

gravity a force that pulls all objects to the earth

force any action that maintains or changes the shape or position of a structure

compression a force that squeezes a material together; result material is shorter

tension a force that stretches or pulls apart a material; result material is longer

span the distance between two structural elements

beam a horizontal structural member that supports a load

column a vertical structural member that supports a load

truss a structural member that is a rigid frame; typically in the shape of a triangle